

Figure 1A

No.	Kinase-Subclass	Family	Sub	Protein	α D sequence
1	Serine/Threonine	RAF		c-Raf	TQWCEGSSLYKHLHVQETK F
2	Serine/Threonine	RAF		Araf	TQWCEGSSLYHHLHVADTR F
3	Serine/Threonine	RAF		Braf	TQWCEGSSLYHHLHIETKF
4	Serine/Threonine	CAPK		cAPKa	MEYVPGGEMFSLRRIGRF
4	Serine/Threonine	CAPK		cAPKb	MEYVPGGEMFSLRRIGRF
5	Serine/Threonine	CAPK		cAPKg	MEYVPGGEMFSRLQRVGRF
6	Serine/Threonine	PKC		PKCa	MEYVNGGDLMYHIQQVGK F
7	Serine/Threonine	PKC		PKCb	MEYVNGGDLMYHIQQVGR F
8	Serine/Threonine	PKC		PKCg	MEYVTGGDLMYHIQQLGKF
9	Serine/Threonine	PKC		PKCd	MEFLNGGDLMFHIQDKGRF
10	Serine/Threonine	PKC		PKCe	MEYVNGGDLMFQIQRSRKF
11	Serine/Threonine	PKC		PKCet	MEFVNGGDLMFHIQKSRRF
12	Serine/Threonine	PKC		PKCth	MEYLNNGGDLMYHIQSCHKF

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Figure 1B

13	Serine/Threonine	Akt/PKB		Akt1/RacA	MEYANGGELFFHLSRERV
13	Serine/Threonine	Akt/PKB		Akt2/RacB	MEYANGGELFFHLSRERV
14	Serine/Threonine	GSK3		GSK3a	LEYVPETVYRVARHFTKAK LII
15	Serine/Threonine	GSK3		GSK3b	LDYVPETVYRVARHYSRAK QTL
16	Serine/Threonine	CK II		CK IIa	FEHVNNTDFKQLYQTL
17	Serine/Threonine	CK II		CK IIa'	FEYINNTDFKQLYQIL
18	Serine/Threonine	bARK1,2		bARK1	LDLMNGGDLHYHLSQHGV F
18	Serine/Threonine	bARK1,2		bARK2	LDLMNGGDLHYHLSQHGV F
19	Serine/Threonine	GRK1		GRK1	MTIMNGGDIRYHIYNVDED NPGF
20	Serine/Threonine	GRK4		GRK4	LTIMNGGDLKFHIYNLGNPG F
21	Serine/Threonine	GRK5		GRK5	LTIMNGGDLKFHIYNMGNP GF
22	Serine/Threonine	GRK6		GRK6	LTLMNGGDLKFHIYHMGQA GF

Figure 1C

23	Serine/Threonine	CaMK		CaMK I	MQLVSGGELFDRIIVEKGGY
24	Serine/Threonine	CaMK		CaMK IIa	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIb	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IIg	FDLVTGGELFEDIVAREYY
24	Serine/Threonine	CaMK		CaMK IId	FDLVTGGELFEDIVAREYY
25	Serine/Threonine	POLO		Plk	LELCRRRSLLELHKRRKAL
26	Serine/Threonine	POLO		Plx1	LELCRRRSLLELHKRRKAV
27	Serine/Threonine	POLO		polo	LELCCKKRSMMELELHKRRKSI
28	Serine/Threonine	POLO		SNK	LEYCSRSMMAHILKARKVL
29	Serine/Threonine	POLO		CDC5	LEICPNGSLMELLKRRKVL
30	Serine/Threonine	POLO		Sak	LEMCHNGEMNRYLKNRVK PF
31	Serine/Threonine	POLO		Prk	LELC SRKSLAHIWKARHTL

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31	Serine/Threonine	POLO		Fnk	LELCsrKSLAHlWKARHTL
32	Serine/Threonine	POLO		Plol	LELCeHKSLMELLRKrkQL
33	Serine/Threonine	MARK/p78		MARK1	MEYASGGEVFDYLVAHGRM
33	Serine/Threonine	MARK/p78		MARK2	MEYASGGEVFDYLVAHGRM
34	Serine/Threonine	MARK/p78		P78	MEYASGGKVFDYLVAHGRM
35	Serine/Threonine	CDK		CDK2	FEFLHQDLKKFMDASALTGI
36	Serine/Threonine	CDK		CDK4	FEHVDQDLRTYLDKAPPPGL
37	Serine/Threonine	CDK		CDK6	FEHVDQDLTTYLDKVPEPGV
38	Tyrosine	SRC		c-Src	TEYMSKGSLLDfLKGETGKYL
39	Tyrosine	SRC		c-Yes	TEFMSKGSLLDfLKEGDGKYL
40	Tyrosine	SRC		Fyn	TEYMnKGSLLDfLKDGEGRAL
41	Tyrosine	SRC		c-Fgr	TEFMCHGSLLDfLKNPEGQDL

Figure 1E

42	Tyrosine	LYN/HCK		Lyn	TEYMAKGSLDFLKSDEGGKV
43	Tyrosine	LYN/HCK		Hck	TEFMAKGSLDFLKSDEGSKQ
44	Tyrosine	LCK		Lck	TEYMENGSLVDFLKTPSGIKL
45	Tyrosine	CSK		Csk	TEYMAKGSLVDYLRSGRSLV
46	Tyrosine	CSK		Matk	MEHVSKGNLVNFLRTRGRA LV
47	Tyrosine	FAK		Fak	MELCTLGELRSFLQVRKYSL
48	Tyrosine	ABL		c-Abl	TEFMTYGNLLDYLRNCRQEV
49	Tyrosine	ENDOTHELIAL	Tie/Tek	Tie	IEYAPYGNLLDFLRKSRVLETDPAFAREHGTASTL
50	Tyrosine	ENDOTHELIAL	Tie/Tek	Tek	IEYAPHGNLLDFLRKSRVLETDPAFAIANSTASTL
51	Tyrosine	ENDOTHELIAL	FGFR	Flg	VEYASKGNLREYLQARRPPGLEYCYNPSHNPEEQL
52	Tyrosine	ENDOTHELIAL	FGFR	Bek	VEYASKGNLREYLRRARRPPGMEYSYDINRVPEEQM
53	Tyrosine	ENDOTHELIAL	FGFR	FGFR-3	VEYAAKGNLREFLRARRPPGLDYSFDTCKPPEEQL

Figure 1F

54	Tyrosine	ENDOTH ELIAL	FGFR	FGFR-4	VECAAKGNLREFLRARRPP GPDLSPDGPRSSEGPL
55	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-a	TEYCFYGDLVNYLHKNRDS FLSHHPEKPKKELDIFGLNP A
56	Tyrosine	ENDOTH ELIAL	PDGFR	PDGFR-b	TEYCRYGDLVDYLHRNKHT FLQHHSDKRPPSAELYSNA L
57	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flt1	VEYCKYGNLSNYLKSQRDL FFLNKDAALHMEPKKEKME PG
58	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flt4	VEFCKYGNLSNFLRAKRDA FSPCAEKSPEQRGRFRAMV EL
59	Tyrosine	ENDOTH ELIAL	Flt/Flk	Flk1	VEFSKFGNLSTYLGRKNEF VPYKSKGARFRQGGDYVGE L
60	Tyrosine	HGFR		c-Met	LPYMKHGDLRNFIRNETHN P
61	Tyrosine	HGFR		c-Sea	LPYMRHGDLRHFIRAQERSP
62	Tyrosine	HGFR		Ron	LPYMCHGDLLQFIRSPQRNP
63	Tyrosine	EGFR		EGFR	TQLMPFGCLLDYVREHKDN I
64	Tyrosine	EGFR		ErbB2	TQLMPYGCLLDHVRNRGR L
65	Tyrosine	EGFR		ErbB3	TQYLPLGSLLDHVRQHRGA L

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Figure 1G

66	Tyrosine	EGFR		ErbB4	TQLMPHGCALLEYVHEHKDN I
67	Tyrosine	RET		Ret	VEYAKYGSLRGFLRESRKV GPGYLGSGGSRNSSSLDHPD ERAL
68	Tyrosine	TRK- NGFR		Trk - NGFR	FEYMRHGDNLNRFLRSHGPD AKLLAGGEDVAPGPL
69	Tyrosine	TRK- NGFR		TrkB	FEYMKHGDNLNKFLRAHGPD AVLMAEGNPPTTEL
70	Tyrosine	TRK- NGFR		TrkC	FEYMKHGDNLNKFLRAHGPD AMILVDGQPRQAKGEL
71	Tyrosine	SYK/ZA P70		Syk	MEMAELGPLNKYLQQNRH V
72	Tyrosine	SYK/ZA P70		Zap70	MEMAGGGPLHKFLVGKRE EI
73	Tyrosine	TYK/JA K		Jak1	MEFLPSGSLKEYLPKNKNKI
74	Tyrosine	TYK/JA K		Jak2	MEYLPYGSLRDY LQKHKE R I
75	Tyrosine	TYK/JA K		Jak3	MEYLPYGSLRDY LQKHKE R L
76	Tyrosine	TYK/JA K		Tyk2	MEYVPLGSLRDY LPRHSI
77	Serine/Threonine	IAK		Iak1	LEYAPLGT VYRELQKLSKF

Figure 1H

78	Serine/Threonine	CHK		Chk1	LEYCSGGELFDRIEPDIGM
79	Serine/Threonine	IKK		IKK-1	MEYCSGGDLRKLLNKPENC CGL
80	Serine/Threonine	IKK		IKK-2	MEYCQGGDLRKYLNQFEN CCGL
81	Serine/Threonine	DAPK		DAPK	LELVAGGELFDFLAEKESL
82	Tyrosine	IRK		IRK	MELMAHGDLKSYLRSLRPE AENNPGRPPPTL
83	Serine/Threonine	Activin/T GFbR	TGFbR	TGFbRII	TAFHAKGNLQEYLTRHVI
84	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIA	TAFHEKGSLSDFLKANVV
85	Serine/Threonine	Activin/T GFbR	ACTR	ACTRIIB	TAFHDKGSLTDYLGKNI
86	Serine/Threonine	Activin/T GFbR	ALK	ALK1	THYHEHGSLYDFLQRQTL
87	Serine/Threonine	Activin/T GFbR	ALK	ALK2	THYHEMGSLYDYLQLTTL
88	Serine/Threonine	Activin/T GFbR	ALK	ALK3	TDYHENGSLYDFLKCATL
89	Serine/Threonine	Activin/T GFbR	ALK	ALK4	SDYHEHGSLFDYLNRYTV

Figure 1I

89	Serine/Threonine	Activin/T GFbR	ALK	ALK5	SDYHEHGSLFDYLNRYTV
90	Serine/Threonine	Activin/T GFbR	ALK	ALK6	TDYHENGSLYDYLKSTTL
91	Tyrosine	DDR		DDR1	TDYMENGDLNQFLSAHQL
92	Tyrosine	DDR		DDR2	TEYMENGDLNQFLSRHEP
93	Serine/Threonine	ILK		ILK	THWMPYGSLYNVLHEGTNF VV
94	Tyrosine	MAPK		JNK	MELMDANLCQVIQMEL

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Figure 2A

Protein Kinase

c-Raf	T	Q	W	C	E	G	S	S	L	Y	K	H	L	H	I	E	T	K	F
Araf	S	N	F	S	D	A	T	T	I	F	H			I	V	D	S	R	W
Braf			Y	*					M	W	R		M	M	*			Y	
									V				V		L				

cAPKa	M	E	Y	V	P	G	G	E	M	F	S	H	L	R	R	I	G	R	F
cAPKb	I	Q	F	L	N	A	A	D	L	M	F	R	I	Q	H	V	R	K	W
cAPKg	L	D	W	A	T			*	I	W	Y	Q	M	S	Q	E	H	V	Y
	V	N		I	S				V	Y	W	K	V	K	D	L	K	I	
		*		M	Q					I	T	N		N	K	K	A	L	
				G						L				T	S	S		M	
										V					N	C			
															E	M			
															T	D			
															*	R			
																T			
																*			

PKCa	M	E	Y	V	N	G	G	D	L	M	F	H	I	Q	Q	V	G	K	F
PKCb	I	D	F	L	T	A	A	E	I	I	Y	Q	L	N	D	L	R	R	W
PKCc	L	*	W	I	Q			*	M	L	W	N	M		R	K	H		Y
PKCd	V			M	S				V	V			V		K	S	K		
PKCe															S	C	A		
PKCet															N	I			
PKCth															E	M			
															T	R			
															*	T			

Akt1/RacA	M	E	Y	A	N	G	G	E	L	F	F	H	L	S	R	E	R	V	F
Akt2/RacB	I	Q	F	V	Q	A	A	D	I	W	W		I	T	H	D	K	I	W
DmRAC	L	D	W	I				*	M	Y	Y	M		K	*			L	Y
	V	N		L					V			V						M	
		*		M															
				G															

GSK3a	L	E	Y	V	P	E	T	V	Y	R	V	A	R	H	Y	T	K	A	K	Q	I	I
GSK3b	I	D	F	I		D	S	I	H	K	I	I	K	Q	F	S	R	T	N	L	T	L
Sgg/zw3	M	*	W	L		*		L	F		L	V		N	W	A		L	R	N	R	M
ASK-a	V			M				M	W		M	L				N		S	Q	I	L	V
ASK-g											M					Q		I		M	M	
											G					G		M		V	V	
																		V		S		
																		G		K		

CK IIa	F	E	H	V	N	N	T	D	F	K	Q	L	Y	Q	T	L						
CK IIa'	W	D	Y	I	Q	Q	S	E	W	R	N	I	F	N	I	I						
	Y	*	F	L				*	Y			M	W		S	M						
				W	M							V			M	V						
															V							
															L							

Figure 2B

bARK1	L D L M N G G D L H Y H L S Q H G V F N P G F
bARK2	M T I I Q A A E I R F I Y N V D E D G F A W
GRK1	I E M L * M K W M T H L E N P Q W Y
GRK4	V S V V V V F M A Q A A Y
GRK5	* W I * I W
GRK6	L Y
	M E
	D G
	* *

CaMK I	M Q L V S G G E L F D R I V E K G G Y
CaMK IIa	F D I I T A A D I W E D L I A R E Y F
CaMK IIb	W N M L * M Y * K M L D D F W
CaMK IIg	Y E V M V E V M G A W
CaMK IId	I * * * A
	L
	V

Plk	L E L C R R R S L L E L H K R R K A L F
Plx1	I D I S K K G E M M A I L R A H S V W
Polo	M * Y S N K D I N R Y W N V V I Y
SNK	V M P H A T V A H M I K R K P
CDC5	V H Q * I D V M Q I T M
Sak	F E V K F V G L Q
Prk	W T Q G W F M T
Fnk	D G * Y I
Plo1	* L
	M
	R
	N
	G

P78	M E Y A S G G E V F D Y L V A H G R M
MARK1	L D F G T A A K I W E F I G A K I
MARK2	I * W D L Y * W M L L
Par1	V R M V M V
	*

CDK2	F E F L H Q D L K K F M D A V A L T G I
CDK4	W D H V D N E I R T Y L E K S P P A L
CDK6	Y * W I E * M T R W I * R A G E S V
	Y M * V S S V G I I M
	L M
	M V
	T D
	*

Figure 2C

[illegible]

Fak

M	E	L	C	T	L	G	E	L	R	S	F	L	Q	V	R	K	Y	S	L
I	D	I	S	S	I	A	D	I	K	T	W	I	N	I	K	R	F	T	I
L	*	M			M		*	M			Y	M		L		W		M	
V	V				V			V			V		M					V	

c-Abl

T	E	F	M	T	Y	G	N	L	L	D	Y	L	R	E	C	N	R	Q	E	V
S	D	W	I	S	F	A	Q	I	I	E	F	I	K	D	S	Q	K	N	D	I
	*	Y	L		W			M	M	*	W	M		*					*	L
			V					V	V			V								M

[illegible]

Tie	S	T	L	Y	S	N	A	L
Tek	A	E	F	G	L	E	P	A
PDGFR-b	D	I	E	K	M	V	E	G
PDGFR-a	K	K	R	A	V	G	D	I
Flt1	R	F	D	F	T	Q	G	M
Flt4	G	S	I	W	I	D	*	V
Flk1	T	D	M	R		I		
	E	L	V			L		
	*	M	W			M		
		V	Y			A		
		R	K			*		
		W	*					
		Y						
		*						

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Figure 2D

Flg	V E Y A S K G N L R E Y L Q A R R P P	G L E Y C Y N P S H N P
Bek	I D C G A R A Q I K D F I R G K K	A M D L S F D I N R V S
FGFR-3	L * F T M * W M N	P * F T P Q T C K P T
FGFR-4	M W G V V K	I W W E G P S
	S	V I M V L T M Q V S A T

Flg	E Q L
Bek	G P M
FGFR-3	D N I
FGFR-4	A V
	*

c-Met	L P Y M K H G D L R N F I R N E T H N P
c-Sea	I F I R A E I L H W L K A Q E R S
Ron	M W L C * M K Q Y M S P Q K Q
	V V S V I V Q D S T
	M T N D
	V G * N
	*

EGFR	T Q L M P F G C L L D Y V R E H K D N I
ErbB2	S N Y L Y A S I I E H I H Q N R G R L
ErbB3	I I L T M M * F L K D Q E A M
ErbB4	M V H V V W M N A Q V
	V W I * K
	F I G
	W M V

Ret	V E Y A K Y G S L R G F L R E S R K V G P G Y L G S G G S R N
	I D F G R F A T I K A W I K D T K R I A A F I A T A A T K Q
	L * W W M Y M * L W M V
	M V M V

Ret	S S L D H P D E R A L
	T T I E E D K G I
	M * * * M
	V V

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Figure 2E

Syk	M E M A E L G P L N K Y L Q Q N R H V I
Zap70	I D I G G G A I H R F I V G K K E E L
	L * L D I M Q W M N N Q D I M
	V V A M V V I A R * L V
	* V L M
	A M D
	*
Jak1	M E F L P S G S L K E Y L P K N K N K I
Jak2	I D Y I Y A C I R D F I Q R H R E R L
Jak3	L * W M T T M * W M N Q S A M
Tyk2	V V F V V T Q V
	W D
	L G
	I I
	*
Iak1	L E Y A P L G T V Y R E L Q K L S K F
	I D F G I A S I F K D I N R I T R W
	M * W M L W * M M Y
	V V M V V
Chk1	L E Y C S G G E L F D R I E P D I G M
	I D F S T A A D I W E K L D E L A I
	M * W * M Y * M * * M L
	V V V V V
IKK-1	M E Y C S G G D L R K L L N K P E N C C G L
IKK-2	I D F S Q A A E I K R Y I Q Q F D Q S S A I
	L * W T * M I M R W * M
	V N V M V N Y V
	V F
	W
DAPK	L E L V A G G E L F D F L A E K E S L
	I D I I G A A D I W E W I G D R D T I
	M * M L * M Y * Y M * * M
	V V M V V V
IRK	M E L M A H G D L K S Y L R S L R P E A E N N P G R P P P T L
	I D I I G A E I R T F I K T I K D G D Q Q A K S I
	L * M L * M W M M * *
	V V V V V V
TGFbRII	T A F H A K G N L Q E Y L T R H V I
ACTRIIA	S G W E R A S I S D F I K A N I V
ACTRIIB	Y D Q M T * W M S G Q L L
	G T V V R K M M
	*

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Figure 2F

ALK1	T	H	Y	H	E	H	G	S	L	Y	D	F	L	Q	R	Q	T	L
ALK2	S	D	F		D	M	A	T	I	F	E	Y	I	K	L	T	S	V
ALK3		E	W		*	N			M	W	*	W	M	N	C	A		I
ALK4		*				I			V				V	R	S	Y		M
ALK5						L									K	N		
ALK6						V									I	S		
						Q									M	F		
															V	W		
															T	G		

Trk-NGFR	F	E	Y	M	R	H	G	D	L	N	R	F	L	R	S	H	G	P	D	A	K	L	L	A	G	G	E	D	V	A	P
TrkB	W	D	F	I	K		A	E	I	Q	K	W	I	K	A		A		E	G	V	I	M	V	E	A	N	P	P	T	E
TrkC	Y	*	W	L				*	M			Y	M		T			*		M	M	I	I	D		Q	E	R	Q	A	
				V					V			V		G						R	V	V	L	A		D	*	I	S	D	
																				I		M	*		*			L	N	G	
																				L		G						M	G	*	
																													K		

Trk-NGFR	P	L	L
TrkB	G	E	I
TrkC	A	I	M
		M	V
		V	
		D	
		*	

DDR1	T	D	Y	M	E	N	G	D	L	N	Q	F	L	S	A	H	Q	L
DDR2	S	E	F	I	D	Q	A	E	I	Q	N	W	I	T	R		E	P
		*	W	L	*			*	M			Y	M	K		N	I	
				V					V			V	G		D	V		
															*	M		

ILK	T	H	W	M	P	Y	G	S	L	Y	N	V	L	H	E	G	T	N	F	V	V
	S		F	I		F	A	T	I	F	Q	I	I		D	A	S	Q	W	I	I
			Y	L		W			M	W		L	M	*					Y	L	L
				M					V			M	V							M	M

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Figure 3A

Peptide	N-terminal	C-terminal
<u>Akt1/Rac</u>		
95 K014D001	Myristyl- G M E Y A N G G E L F F H L S R E R V F	- NH2
<u>ALK1</u>		
96 K048D101	Myristyl- G T H Y H E H G S L Y D F L Q R Q T L	- NH2
<u>Braf</u>		
97 K003D001	Acetyl- K K K K K K G G S S L Y H H L H I I E T K F	- NH2
98 K003D101	Myristyl- G T Q W S E G S S L Y H H L H I I E T K F	- NH2
<u>c-Abl</u>		
99 K061D101	Myristyl- G T E F M T Y G N L L D Y L R E C N R Q E V	- NH2
<u>c-Met</u>		
100 K073D101	Myristyl- G L P Y M K H G D L R N F I R N E T H N P	- NH2
<u>c-Raf</u>		
101 K001D101	Myristyl- G T Q W S E G S S L Y K H L H V Q E T K F	- NH2
102 K001D001	Acetyl- S S L Y K H L H V Q E T K F	- NH2
<u>c-Sea</u>		
103 K074D101	Myristyl- G L P Y M R H G D L R H F I R A Q E R S P	- NH2
<u>c-Src</u>		
104 K051D101	Myristyl- G T E Y M S K G S L L D F L K G E T G K Y L	- NH2
105 K051D001	Acetyl- G S L L D L K G E T G K F L	- NH2
<u>CDK2</u>		
106 K049D101	Myristyl- G F E F L H Q D L K K F M D A S A L T G I	- NH2
107 K049D001	Acetyl- D L K K F M D A S A L T G M	- NH2
<u>CDK4</u>		
108 K050D001	Acetyl- D L R T Y L D K A P P P G L	- NH2
109 K050D101	Myristyl- G F E H V D Q D L R T Y L D K A P P P G L	- NH2
<u>CDK6</u>		
110 K089D101	Myristyl- G F E H V D Q D L T T Y L D K V P E P G V	- NH2
<u>Chk1</u>		
111 K088D102	Myristyl- G E Y S S G G E L F D R I E P D I G M	- NH2
112 K088D101	Myristyl- G E Y A S G G E L F D R I E P D I G M	- NH2
<u>CK IIa</u>		
113 K022D001	Acetyl- K K K K K G G N N T D F K Q L Y Q T L	- NH2
114 K022D101	Myristyl- G F E H V N N T D F K Q L Y Q T L	- NH2

Figure 3B

<u>Csk</u>		
115 K058D101	Myristyl - G T E Y M A K G S L V D Y L R S R G R S V L	- NH2
116 K058D001	Acetyl - G S L V D L R S R G R S V L	- NH2
<u>Fak</u>		
117 K060D101	Myristyl - G M E L S T L G E L R S F L Q V R K Y S L	- NH2
<u>FGFR-3</u>		
118 K071D101	Myristyl - G G N L R E F L R A R R P P G L E	- NH2
119 K071D001	Acetyl - G N L R E F L R A R R P P G L E	- NH2
120 K071D102	Myristyl - G V E Y A A K G N L R E F L R A R R P P G L E	- NH2
121 K071D901	Stearyl - G S F D T S K P P E E Q L	- NH2
<u>Flk1</u>		
122 K068D101	Myristyl - G V E F S K F G N L S N F L R A K R N L F V P	- NH2
123 K068D101	Myristyl - G G N L S N F L R A K R N L F V P	- NH2
124 K068D001	Acetyl - G N L S N F L R A K R N L F V P	- NH2
125 K068D901	Stearyl - G R F R Q G K D Y V G E L	- NH2
<u>GSK3b</u>		
126 K018D003	Acetyl - K K K K K K G G G V A R H Y S R A K Q T L P	- NH2
127 K018D002	Acetyl - V A R H Y S R A K Q T L P	- NH2
128 K018D101	Myristyl - G D Y V P E T V Y R V A R H Y S R A K Q T L	- NH2
129 K018D001	Acetyl - R V A R H Y S R A K Q T	- NH2
<u>Hck</u>		
130 K056D101	Myristyl - G T E F M A K G S L L D F L K S D E G S K Q	- NH2
<u>Iak1</u>		
131 K087D101	Myristyl - G L E Y A P L G T V Y R E L Q K L S K F	- NH2
<u>IKK-1</u>		
132 K090D101	Myristyl - G M E Y S S G G D L R K L L N K P E N S S G L	- NH2
<u>IKK-2</u>		
133 K091D101	Myristyl - G M E Y S Q G G D L R K Y L N Q F E N S S G L	- NH2
<u>ILK</u>		
134 K107D101	Myristyl - G T H W M P Y G S L Y N V L H E G T N F V V	- NH2
135 K107D901	Stearyl - G Y N V L H E G T N F V V	- NH2

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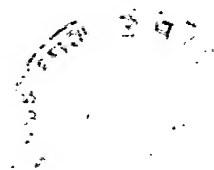


Figure 3C

<u>IRK</u>		
136 K094D101	Myristyl - G M E L M A H G D L K S Y L R S L R P	- NH2
137 K094D001	Acetyl - A Q N N P G R P P P T L	- NH2
138 K094D102	Myristyl - G L K S Y L R S L R P E A	- NH2
139 K094D103	Myristyl - G A E N N P G R P P P T L	- NH2
140 K094D104	Myristyl - G L R P E A E N N P G R P P P T L	- NH2
<u>Jak1</u>		
141 K084D101	Myristyl - G M E F L P S G S L K E Y L P K N K N K I	- NH2
142 K084D102	Myristyl - G L K E Y L P K N K N K I	- NH2
<u>Jak2</u>		
143 K085D102	Myristyl - G L R D Y L Q K H K E R I	- NH2
144 K085D105	Stearyl - G L R D Y L Q K H K E	- NH2
<u>Jak3</u>		
145 K086D101	Myristyl - G M E Y L P S G S L R D F L Q R H R A L	- NH2
146 K086D102	Myristyl - G M E Y L P S G S L R D F L Q R H R A R L	- NH2
147 K086D103	Myristyl - G L R D F L Q R H R A R L	- NH2
<u>Lck</u>		
148 K057D001	Acetyl - G S L V D I L K T P S G I K L	- NH2
149 K057D101	Myristyl - G T E Y M E N G S L V D F L K T P S G I K L	- NH2
<u>Lyn</u>		
150 K055D101	Myristyl - G T E Y M A K G S L L D F L K S D E G G K V	- NH2
<u>MARK1</u>		
151 K045D101	Myristyl - G M E Y A S G G E V F D Y L V A H G R M	- NH2
<u>PDGFR-b</u>		
152 K064D001	Acetyl - G D I L V D I Y L H R N K H T F L	- NH2
153 K064D101	Myristyl - G T E Y S R Y G D L V D Y L H R N K H T F L	- NH2
<u>PKCb</u>		
154 K008D101	Myristyl - G M E Y V N G G D L M Y H I Q Q V G R F	- NH2
155 K008D001	Acetyl - K K K K K K G G D L M Y H I Q Q V G R F	- NH2
<u>Plk</u>		
156 K035D001	Acetyl - R S L L E I L H K R R K A	- NH2
157 K035D101	Myristyl - G R S L L E I L H K R R K A	- NH2

205110-2133001

1. 1. The first
 2. 2. The second
 3. 3. The third
 4. 4. The fourth
 5. 5. The fifth
 6. 6. The sixth
 7. 7. The seventh
 8. 8. The eighth
 9. 9. The ninth
 10. 10. The tenth
 11. 11. The eleventh
 12. 12. The twelfth
 13. 13. The thirteenth
 14. 14. The fourteenth
 15. 15. The fifteenth
 16. 16. The sixteenth
 17. 17. The seventeenth
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 28. 28. The twenty-eighth
 29. 29. The twenty-ninth
 30. 30. The thirtieth
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 87. 87. The eighty-seventh
 88. 88. The eighty-eighth
 89. 89. The eighty-ninth
 90. 90. The ninetieth
 91. 91. The ninety-first
 92. 92. The ninety-second
 93. 93. The ninety-third
 94. 94. The ninety-fourth
 95. 95. The ninety-fifth
 96. 96. The ninety-sixth
 97. 97. The ninety-seventh
 98. 98. The ninety-eighth
 99. 99. The ninety-ninth
 100. 100. The hundredth

K:\RWAGNER\CMCC\679\FIGURES

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% change in daily food
consumption (g/mouse/d)

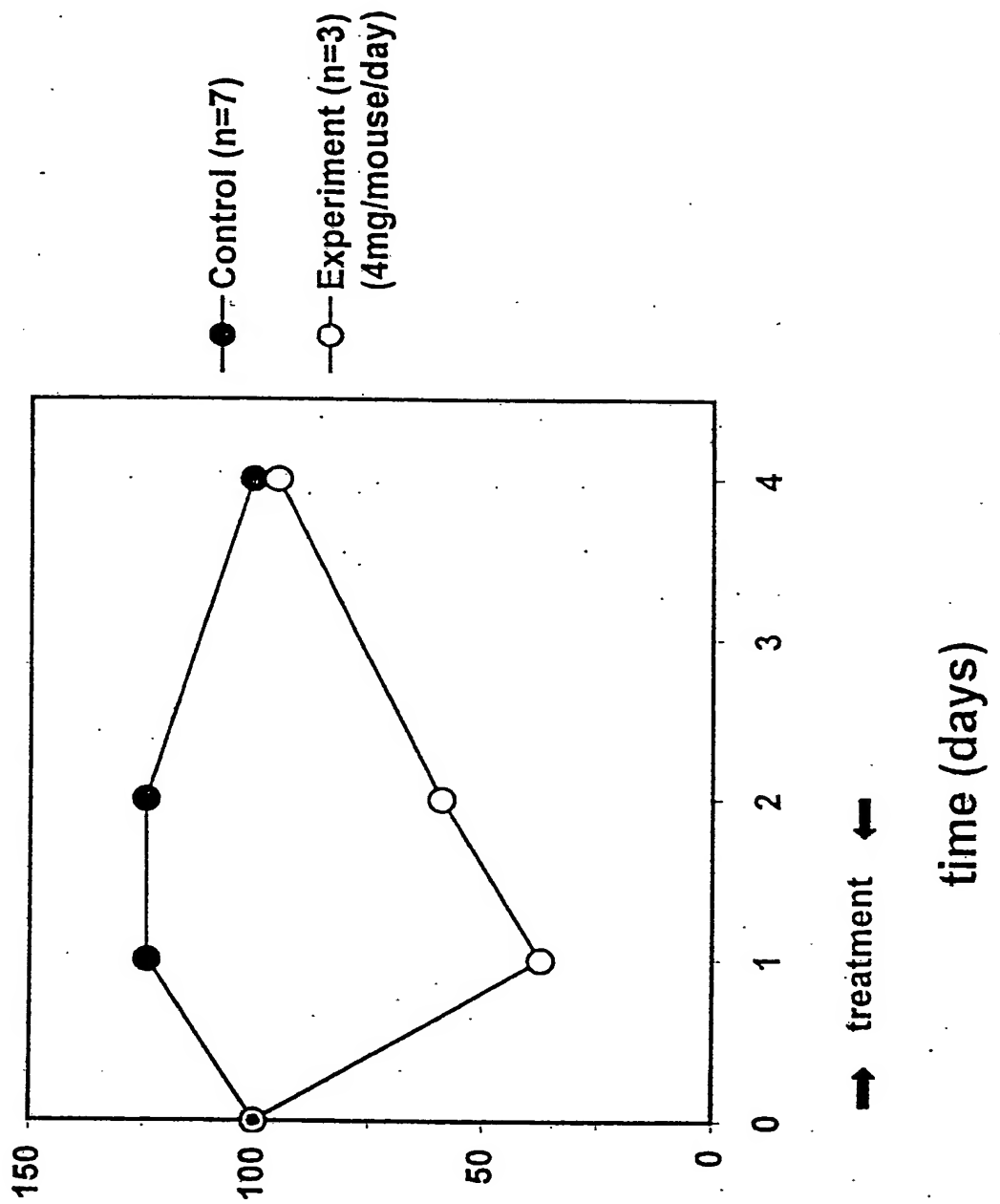


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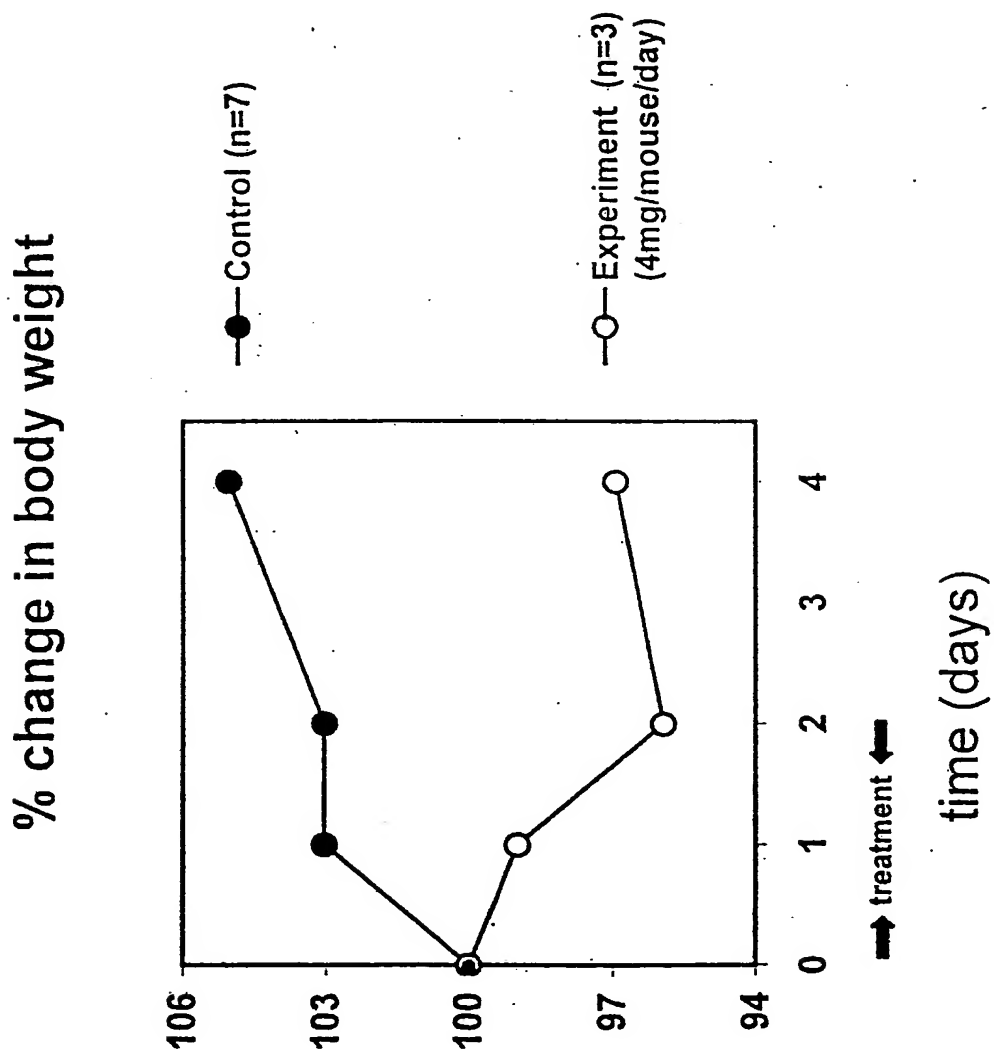


Figure 5

MODULATION OF TH1/TH2 DIFFERENTIATION BY A JAK-DERIVED PEPTIDE

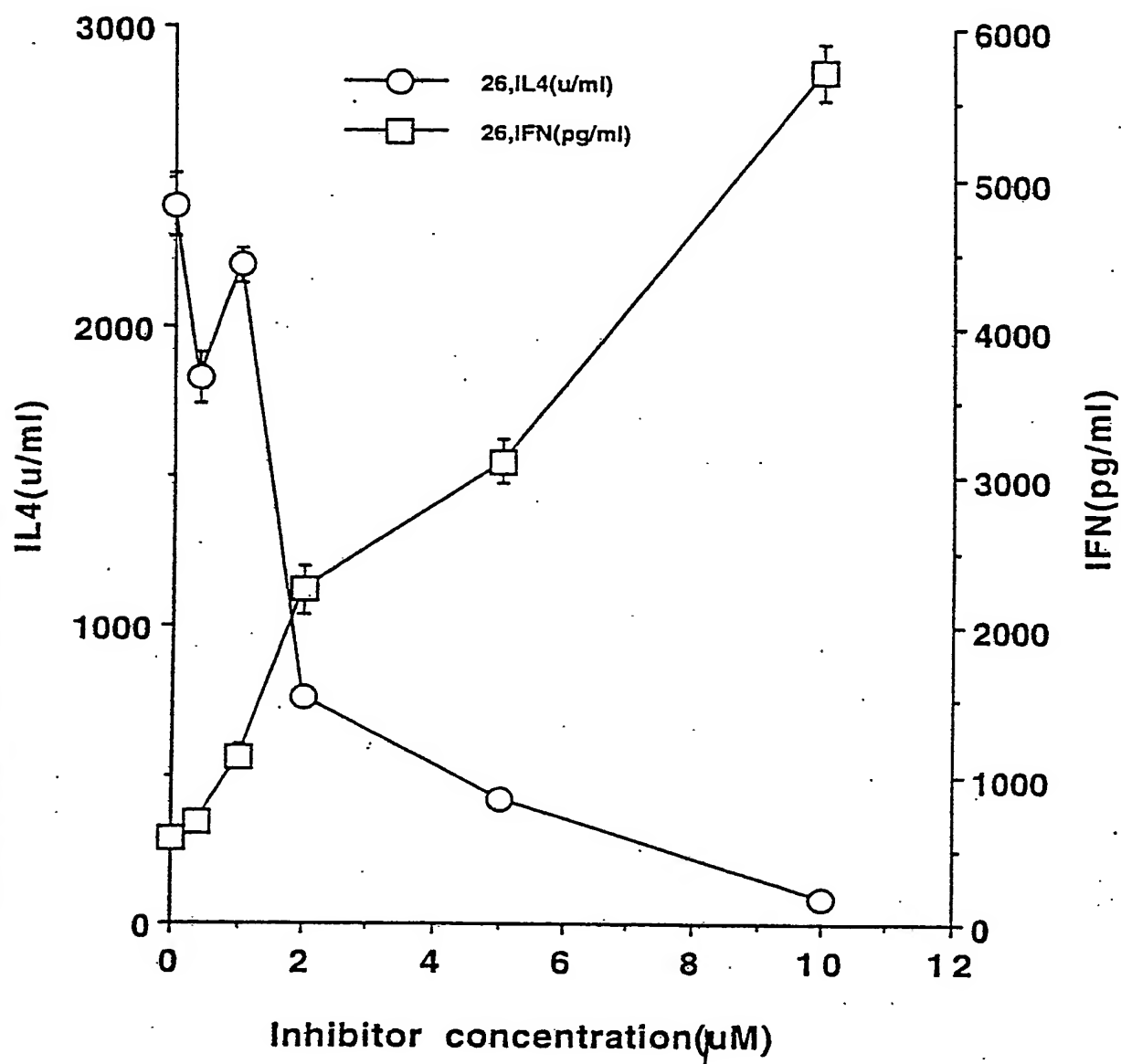


Figure 6

0.05 0.1 0.2 0.5 1 2 5 10 20 50 100 200 500 1000

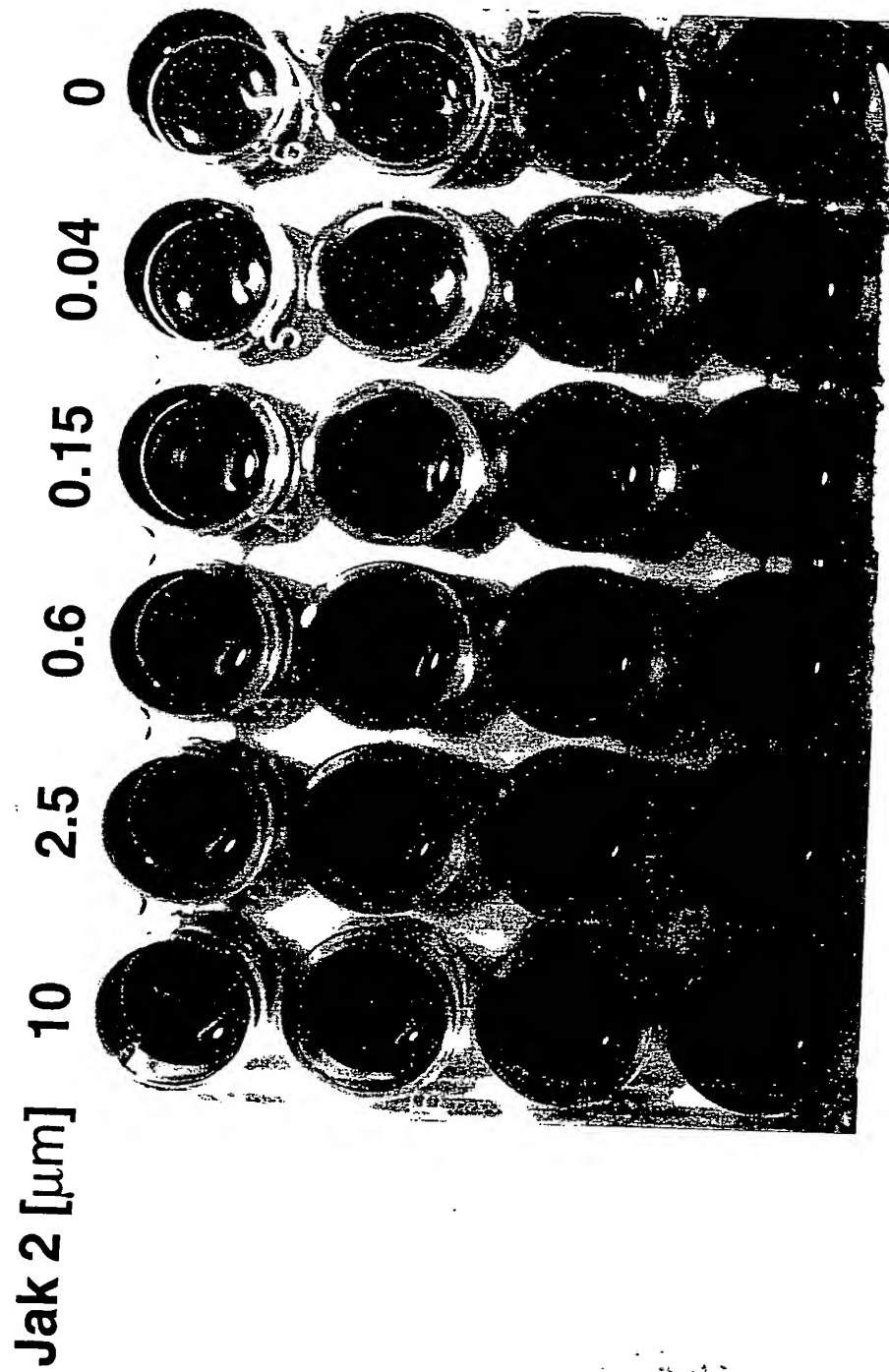


Fig. 7